

Figure A-82. EF-111A, ACN/PCN Curves

ETL 1110-3-394

27 Sep 91

Aircraft Manufacturer Cessna

Aircraft Engine Manufacturer Continental (IO-360-D)

No. of Engines 2 Engine Rating 210 BHP

Min. T/O Wt. 3.80 k-lb * Min. T/O Dist. @ Min. T/O Wt. 550 ft

* Min. T/O Dist. @ Min. T/O Wt. With Abort Dist. †

Max. T/O Wt. Peace-Time 4.85 k-lb Max. T/O Wt. War-Time 4.90 k-lb

* Min. T/O Dist. @ Max. T/O Wt. War-Time 1,060 ft

* Min. T/O Dist. @ Max. T/O Wt. War-Time With Abort Dist. †

Min. Ldg. Wt. 3.70 k-lb Max. Ldg. Wt. 4.85 k-lb

* Min. Ldg. Dist. @ Min. Ldg. Wt. 480 ft

* Min. Ldg. Dist. @ Max. Ldg. Wt. 700 ft

* These distances are at 59°F, at sea level, with zero runway gradient, and on a clean dry runway surface.

ACN

Weight	Rigid Pavement Subgrades				Flexible Pavement Subgrades			
	High A	Medium B	Low C	Ultra D	High A	Medium B	Low C	Very Low D

4,900 lb/45 psi**

** The relative structural effect of an aircraft with a weight less than 12,500 pounds is reported as maximum aircraft weight and maximum tire pressure.

Figure A-83. O-2A

Aircraft Manufacturer Cessna

Aircraft Engine Manufacturer Continental (IO-360-C or IO-360-D)

No. of Engines 2 Engine Rating 210 BHP

Min. T/O Wt. 3.90 k-lb * Min. T/O Dist. @ Min. T/O Wt. 630 ft

* Min. T/O Dist. @ Min. T/O Wt. With Abort Dist. †

Max. T/O Wt. Peace-Time 4.50 k-lb Max. T/O Wt. War-Time 4.60 k-lb

* Min. T/O Dist. @ Max. T/O Wt. War-Time 910 ft

* Min. T/O Dist. @ Max. T/O Wt. War-Time With Abort Dist. †

Min. Ldg. Wt. 3.80 k-lb Max. Ldg. Wt. 4.40 k-lb

* Min. Ldg. Dist. @ Min. Ldg. Wt. 490 ft

* Min. Ldg. Dist. @ Max. Ldg. Wt. 700 ft

* These distances are at 59°F, at sea level, with zero runway gradient, and on a clean dry runway surface.

ACN

Weight	Rigid Pavement Subgrades				Flexible Pavement Subgrades			
	High <u>A</u>	Medium <u>B</u>	Low <u>C</u>	Ultra Low <u>D</u>	High <u>A</u>	Medium <u>B</u>	Low <u>C</u>	Very Low <u>D</u>

4,600 lb/45 psi**

** The relative structural effect of an aircraft with a weight less than 12,500 pounds is reported as maximum aircraft weight and maximum tire pressure.

Figure A-84. 0-2B

ETL 1110-3-394

27 Sep 91

Aircraft Manufacturer Cessna

Aircraft Engine Manufacturer General Electric (J85-17A)

No. of Engines 2 Engine Rating 2,850 lb

Min. T/O Wt. 6.6 k-lb * Min. T/O Dist. @ Min. T/O Wt. 300 ft

* Min. T/O Dist. @ Min. T/O Wt. With Abort Dist. 300 ft

Max. T/O Wt. Peace-Time 14.0 k-lb Max. T/O Wt. War-Time 14.0 k-lb

* Min. T/O Dist. @ Max. T/O Wt. War-Time 2,700 ft

* Min. T/O Dist. @ Max. T/O Wt. War-Time With Abort Dist. 7,000 ft

Min. Ldg. Wt. 7.0 k-lb Max. Ldg. Wt. 14.0 k-lb

* Min. Ldg. Dist. @ Min. Ldg. Wt. 1,700 ft

* Min. Ldg. Dist. @ Max. Ldg. Wt. 7,500 ft

* These distances are at 59°F, at sea level, with zero runway gradient, and on a clean dry runway surface.

ACN

Weight	Rigid Pavement Subgrades				Flexible Pavement Subgrades			
	High		Medium	Low	Ultra	High		Low
	A	B	C	D	A	B	C	D
7	2	2	2	2	1	1	2	2
14	5	5	5	5	4	5	5	5

Figure A-85. OA-37B, Dragonfly

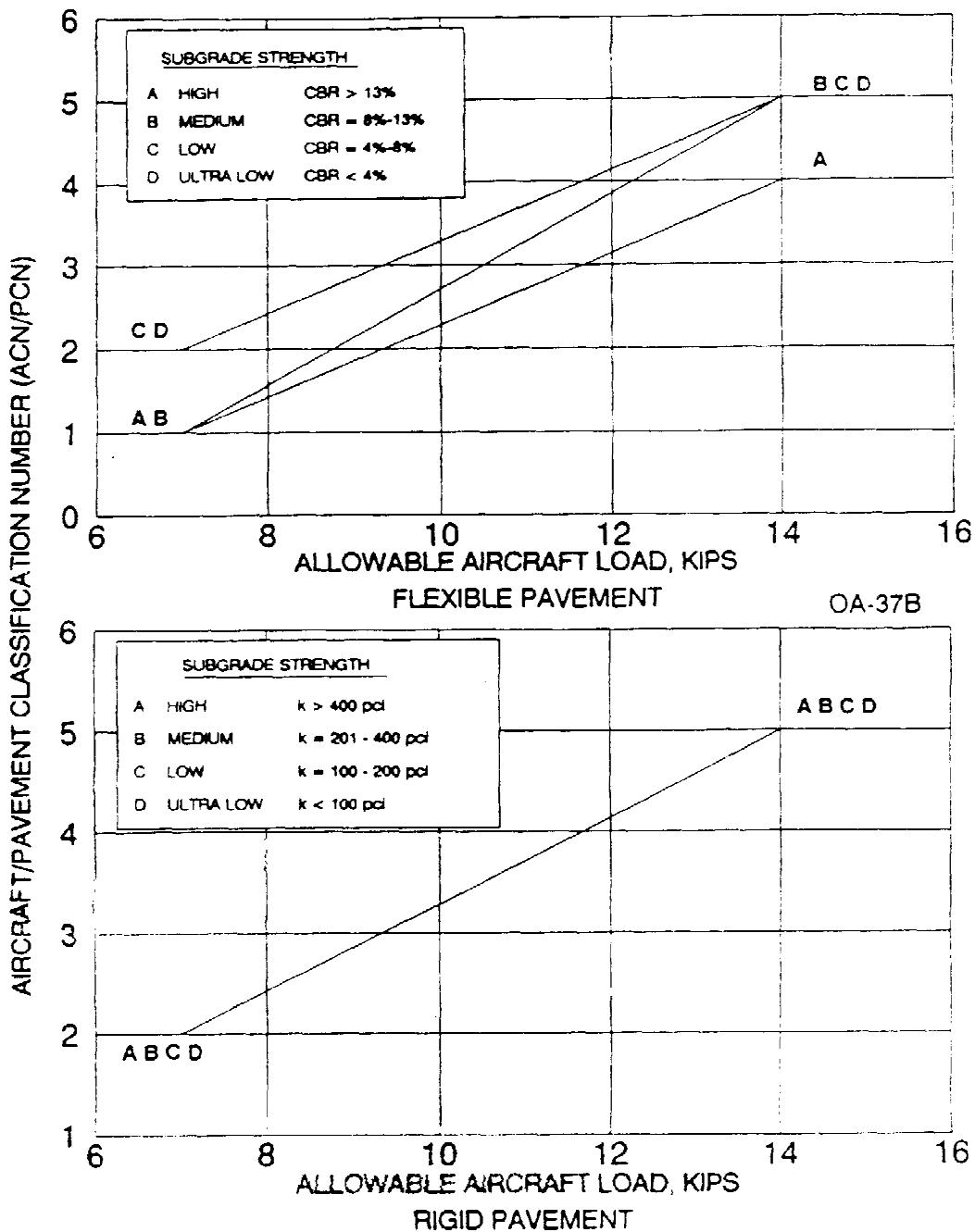


Figure A-86. OA-37B, ACN/PCN Curves

27 Sep 91

Aircraft Manufacturer

Grumman

Aircraft Engine Manufacturer

Lycoming (T53-L-7A)No. of Engines 2Engine Rating 1100 SHPMin. T/O Wt. 13.7 k-lb* Min. T/O Dist. @ Min. T/O Wt. 1,400 ft* Min. T/O Dist. @ Min. T/O Wt. With Abort Dist. 3,200 ftMax. T/O Wt. Peace-Time 16.6 k-lb Max. T/O Wt. War-Time 16.6 k-lb* Min. T/O Dist. @ Max. T/O Wt. War-Time 2,050 ft* Min. T/O Dist. @ Max. T/O Wt. War-Time With Abort Dist. 3,950 ftMin. Ldg. Wt. 12.9 k-lb Max. Ldg. Wt. 16.6 k-lb* Min. Ldg. Dist. @ Min. Ldg. Wt. 600 ft* Min. Ldg. Dist. @ Max. Ldg. Wt. 900 ft

* These distances are at 59°F, at sea level, with zero runway gradient, and on a clean dry runway surface.

ACN

Weight	Rigid Pavement Subgrades				Flexible Pavement Subgrades			
	High		Medium	Low	High		Medium	Low
	A	B	C	D	A	B	C	D
13	5	5	5	5	5	5	5	5
17	6	6	6	6	6	6	6	7

Figure A-87. OV-1B, Mohawk

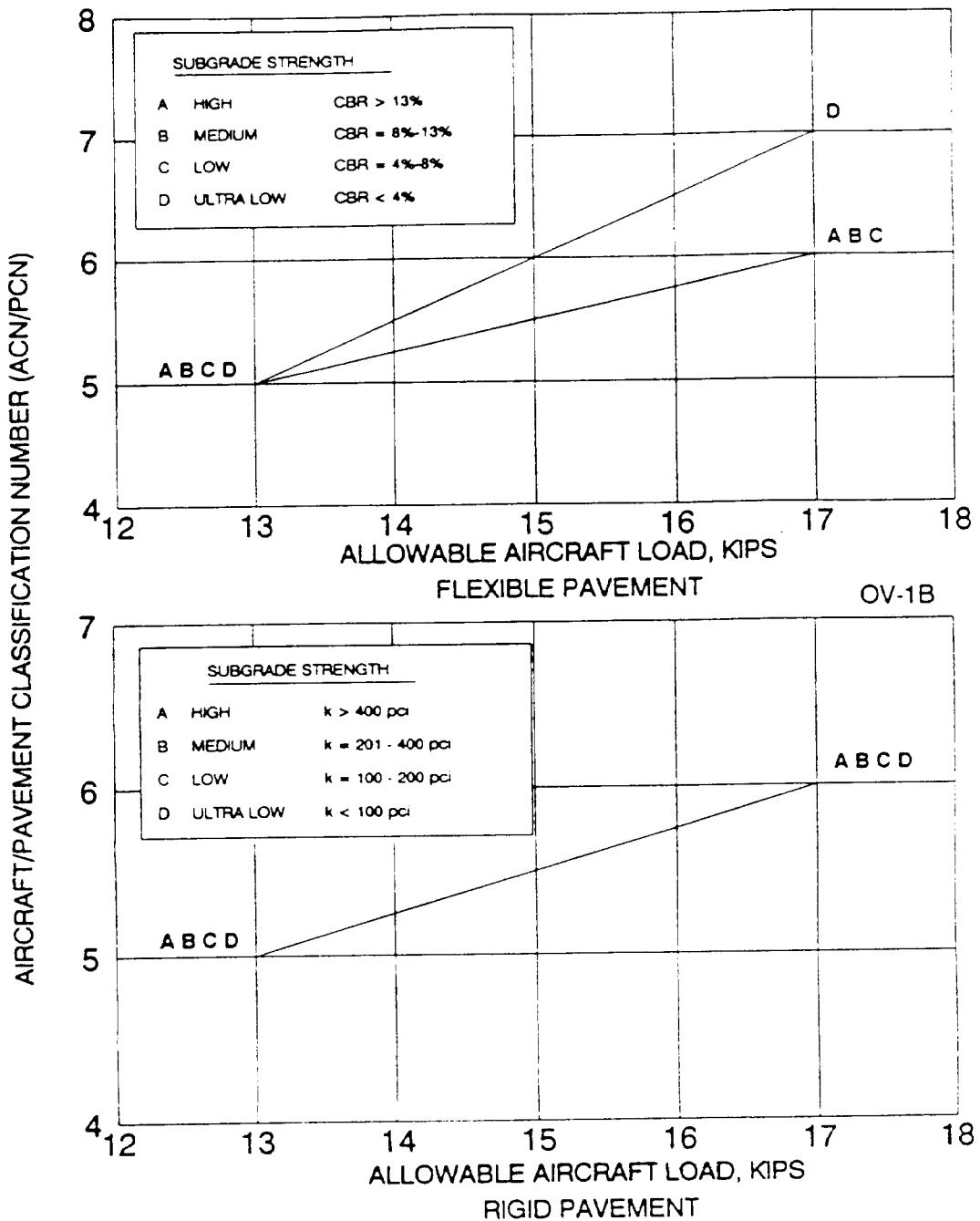


Figure A-88. OV-1B, ACN/PCN Curves

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Aircraft Manufacturer GrummanAircraft Engine Manufacturer Lycoming (T53-L-7A)No. of Engines 2 Engine Rating 1100 SHPMin. T/O Wt. 12.7 k-lb * Min. T/O Dist. @ Min. T/O Wt. 1,200 ft* Min. T/O Dist. @ Min. T/O Wt. With Abort Dist. 4,000 ftMax. T/O Wt. Peace-Time 15.3 k-lb Max. T/O Wt. War-Time 15.3 k-lb* Min. T/O Dist. @ Max. T/O Wt. War-Time 1,600 ft* Min. T/O Dist. @ Max. T/O Wt. War-Time With Abort Dist. 4,700 ftMin. Ldg. Wt. 12.3 k-lb Max. Ldg. Wt. 15.3 k-lb* Min. Ldg. Dist. @ Min. Ldg. Wt. 600 ft* Min. Ldg. Dist. @ Max. Ldg. Wt. 800 ft

* These distances are at 59°F, at sea level, with zero runway gradient, and on a clean dry runway surface.

ACN

Weight	Rigid Pavement Subgrades				Flexible Pavement Subgrades			
			Ultra				Very	
	High A	Medium B	Low C	Low D	High A	Medium B	Low C	Low D
12	5	5	5	5	4	4	4	5
15	6	6	6	6	5	5	5	6

Figure A-89. OV-1C, Mohawk

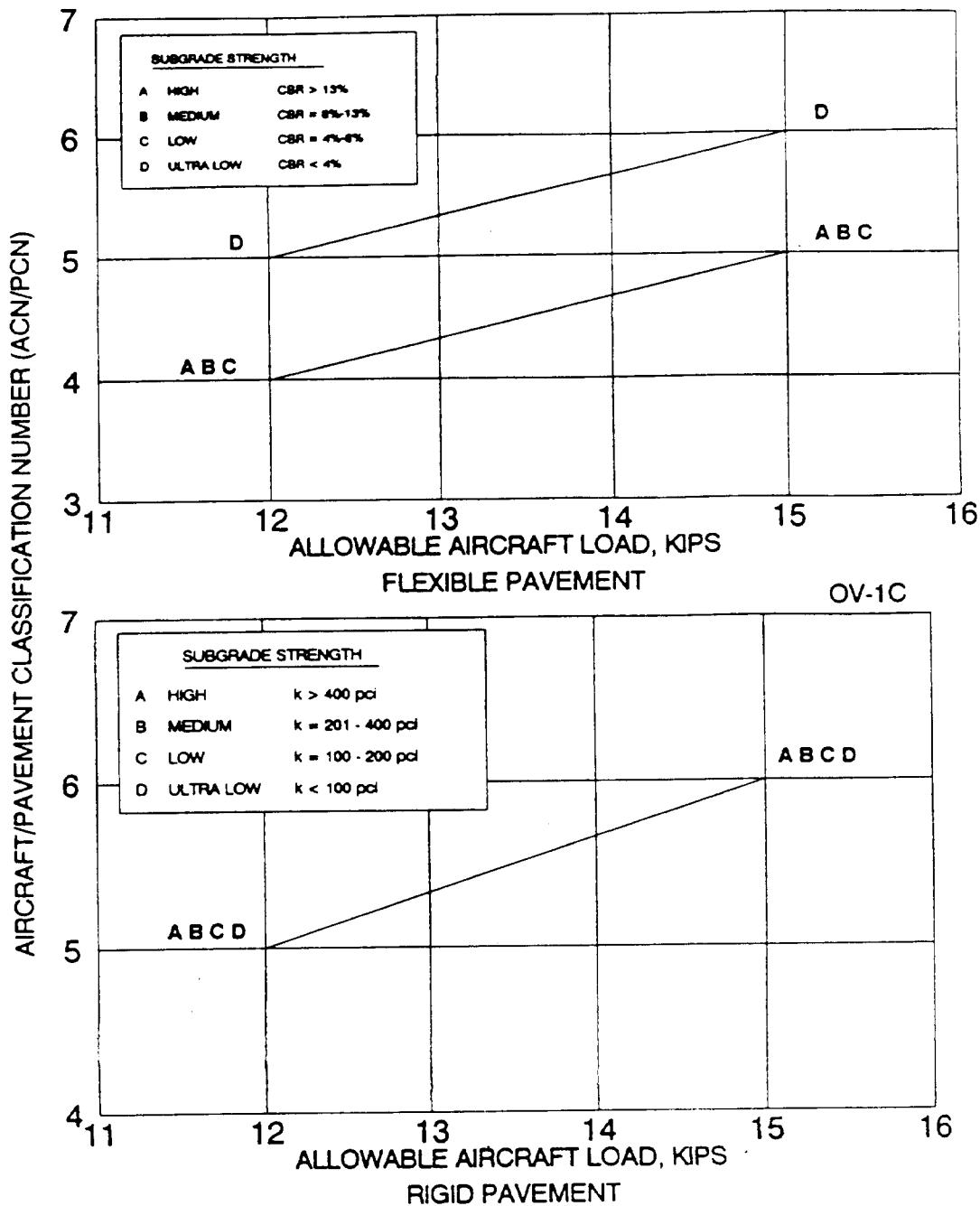


Figure A-90. OV-1C, ACN/PCN Curves

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Aircraft Manufacturer Grumman

Aircraft Engine Manufacturer Lycoming (T53-L-701A)

No. of Engines 2 Engine Rating 1400 SHP

Min. T/O Wt. 13.2 k-lb * Min. T/O Dist. @ Min. T/O Wt. 1,000 ft

* Min. T/O Dist. @ Min. T/O Wt. With Abort Dist. 3,300 ft

Max. T/O Wt. Peace-Time 18.3 k-lb Max. T/O Wt. War-Time 18.3 k-lb

* Min. T/O Dist. @ Max. T/O Wt. War-Time 2,200 ft

* Min. T/O Dist. @ Max. T/O Wt. War-Time With Abort Dist. 4,700 ft

Min. Ldg. Wt. 13.2 k-lb Max. Ldg. Wt. 18.3 k-lb

* Min. Ldg. Dist. @ Min. Ldg. Wt. 600 ft

* Min. Ldg. Dist. @ Max. Ldg. Wt. 1,100 ft

* These distances are at 59°F, at sea level, with zero runway gradient, and on a clean dry runway surface.

ACN

Weight	Rigid Pavement Subgrades				Flexible Pavement Subgrades			
					Very			
	High A	Medium B	Low C	Ultra D	High A	Medium B	Low C	Low D
13	5	5	5	5	5	5	5	5
18	6	6	6	6	6	6	7	7

Figure A-91. OV-1D, Mohawk

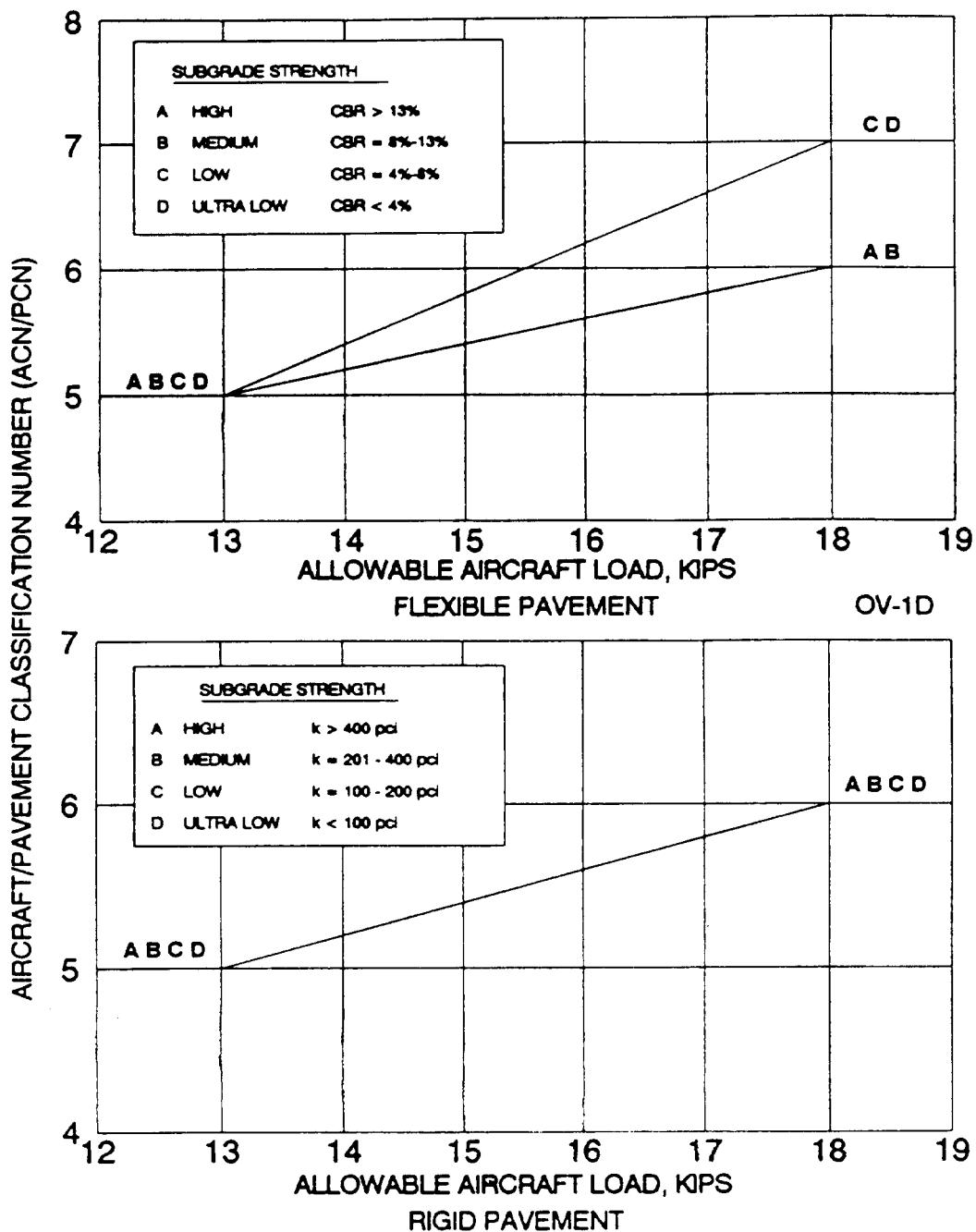


Figure A-92. OV-1D, ACN/PCN Curves

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Aircraft Manufacturer Rockwell InternationalAircraft Engine Manufacturer Garrett-AiResearch (T76-G-10/G-12)No. of Engines 2 Engine Rating 715 SHPMin. T/O Wt. 8.3 k-lb * Min. T/O Dist. @ Min. T/O Wt. 500 ft* Min. T/O Dist. @ Min. T/O Wt. With Abort Dist. 1,100 ftMax. T/O Wt. Peace-Time 14.0 k-lb Max. T/O Wt. War-Time 14.0 k-lb* Min. T/O Dist. @ Max. T/O Wt. War-Time 1,750 ft* Min. T/O Dist. @ Max. T/O Wt. War-Time With Abort Dist. 3,650 ftMin. Ldg. Wt. 8.3 k-lb Max. Ldg. Wt. 13.0 k-lb* Min. Ldg. Dist. @ Min. Ldg. Wt. 600 ft* Min. Ldg. Dist. @ Max. Ldg. Wt. 1,250 ft

* These distances are at 59°F, at sea level, with zero runway gradient, and on a clean dry runway surface.

ACN

Weight	Rigid Pavement Subgrades				Flexible Pavement Subgrades				Very Low D	
	Ultra				High A	Medium B	Low C	Low D		
	High A	Medium B	Low C	Low D						
8	2	2	2	2	2	2		3	3	
13	5	5	5	5	5	5		6	6	
14	5	5	5	5	5	5		6	6	

Figure A-93. OV-10A, Bronco

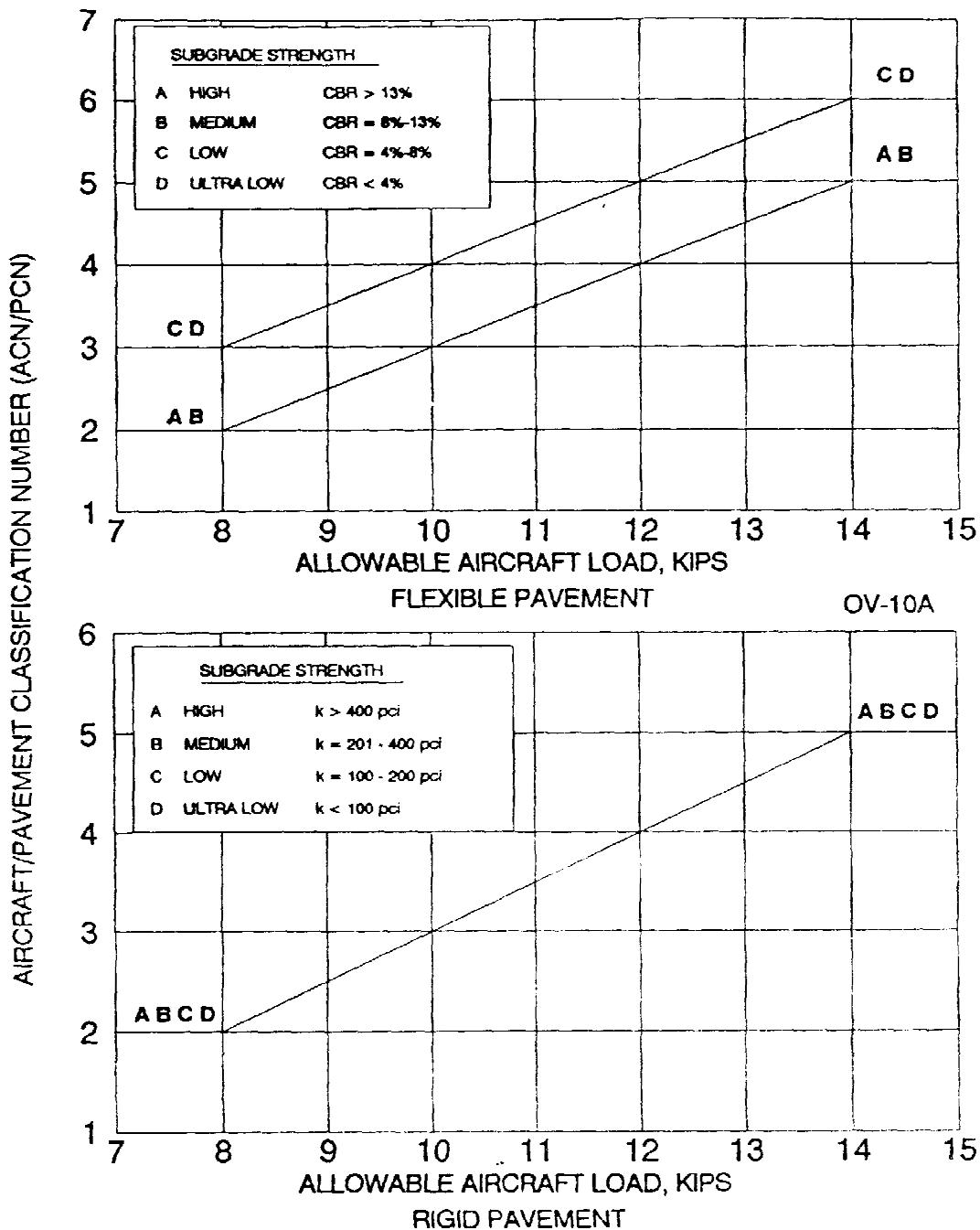


Figure A-94. OV-10A, ACN/PCN Curves

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Aircraft Manufacturer BeechAircraft Engine Manufacturer Pratt and Whitney of Canada (PT6A-42)No. of Engines 2 Engine Rating 850 SHPMin. T/O Wt. 9.0 k-lb * Min. T/O Dist. @ Min. T/O Wt. †* Min. T/O Dist. @ Min. T/O Wt. With Abort Dist. †Max. T/O Wt. Peace-Time 12.5 k-lb Max. T/O Wt. War-Time 12.5 k-lb* Min. T/O Dist. @ Max. T/O Wt. War-Time 1,860 ft* Min. T/O Dist. @ Max. T/O Wt. War-Time With Abort Dist. †Min. Ldg. Wt. 9.0 k-lb Max. Ldg. Wt. 12.5 k-lb* Min. Ldg. Dist. @ Min. Ldg. Wt. †* Min. Ldg. Dist. @ Max. Ldg. Wt. 1,120 ft

* These distances are at 59°F, at sea level, with zero runway gradient, and on a clean dry runway surface.

ACN

Weight	Rigid Pavement Subgrades				Flexible Pavement Subgrades			
	High		Medium	Low	Ultra Low	High		Low
	A	B	C	D	A	B	C	Very Low D
9	1	1	1	1	1	1	1	1
13	3	3	3	3	2	3	3	3

Figure A-95. RC-12D/G/H/K

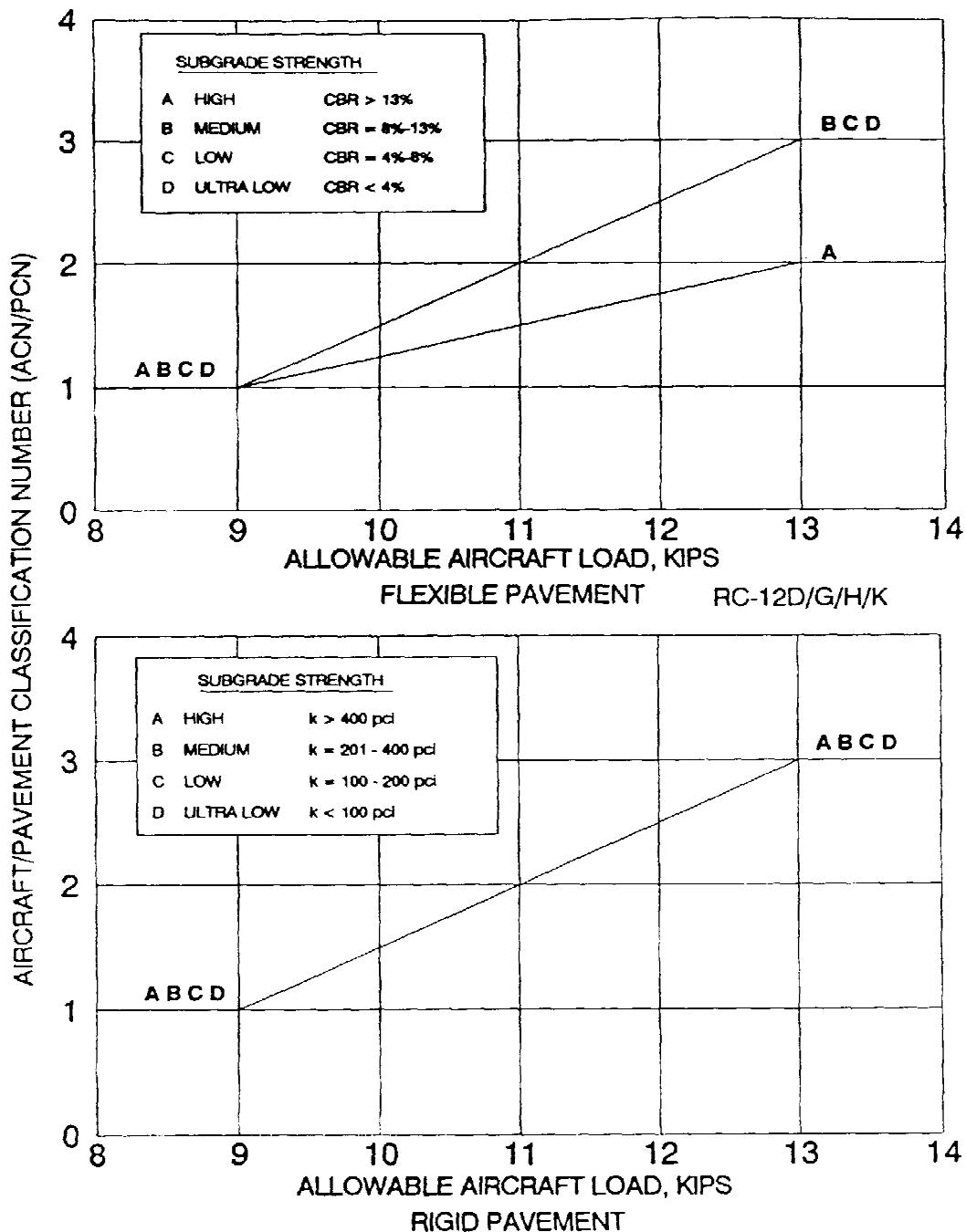


Figure A-96. RC-12D/G/H/K, ACN/PCN Curves

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27 Sep 91

Aircraft Manufacturer Beech

Aircraft Engine Manufacturer Pratt and Whitney of Canada (PT6A-41)

No. of Engines 2 Engine Rating 850 SHP

Min. T/O Wt. 8.8 k-lb * Min. T/O Dist. @ Min. T/O Wt. †

* Min. T/O Dist. @ Min. T/O Wt. With Abort Dist. †

Max. T/O Wt. Peace-Time 12.5 k-lb Max. T/O Wt. War-Time 12.5 k-lb

* Min. T/O Dist. @ Max. T/O Wt. War-Time 1,860 ft

* Min. T/O Dist. @ Max. T/O Wt. War-Time With Abort Dist. †

Min. Ldg. Wt. 8.8 k-lb Max. Ldg. Wt. 12.5 k-lb

* Min. Ldg. Dist. @ Min. Ldg. Wt. †

* Min. Ldg. Dist. @ Max. Ldg. Wt. 1,120 ft

* These distances are at 59°F, at sea level, with zero runway gradient, and on a clean dry runway surface.

ACN

Weight	Rigid Pavement Subgrades				Flexible Pavement Subgrades			
	High		Medium	Low	Ultra	High		Low
	A	B	C	D	A	B	C	Very Low D
9	1	1	1	1	1	1	1	1
13	3	3	3	3	2	3	3	3

Figure A-97. U-21J

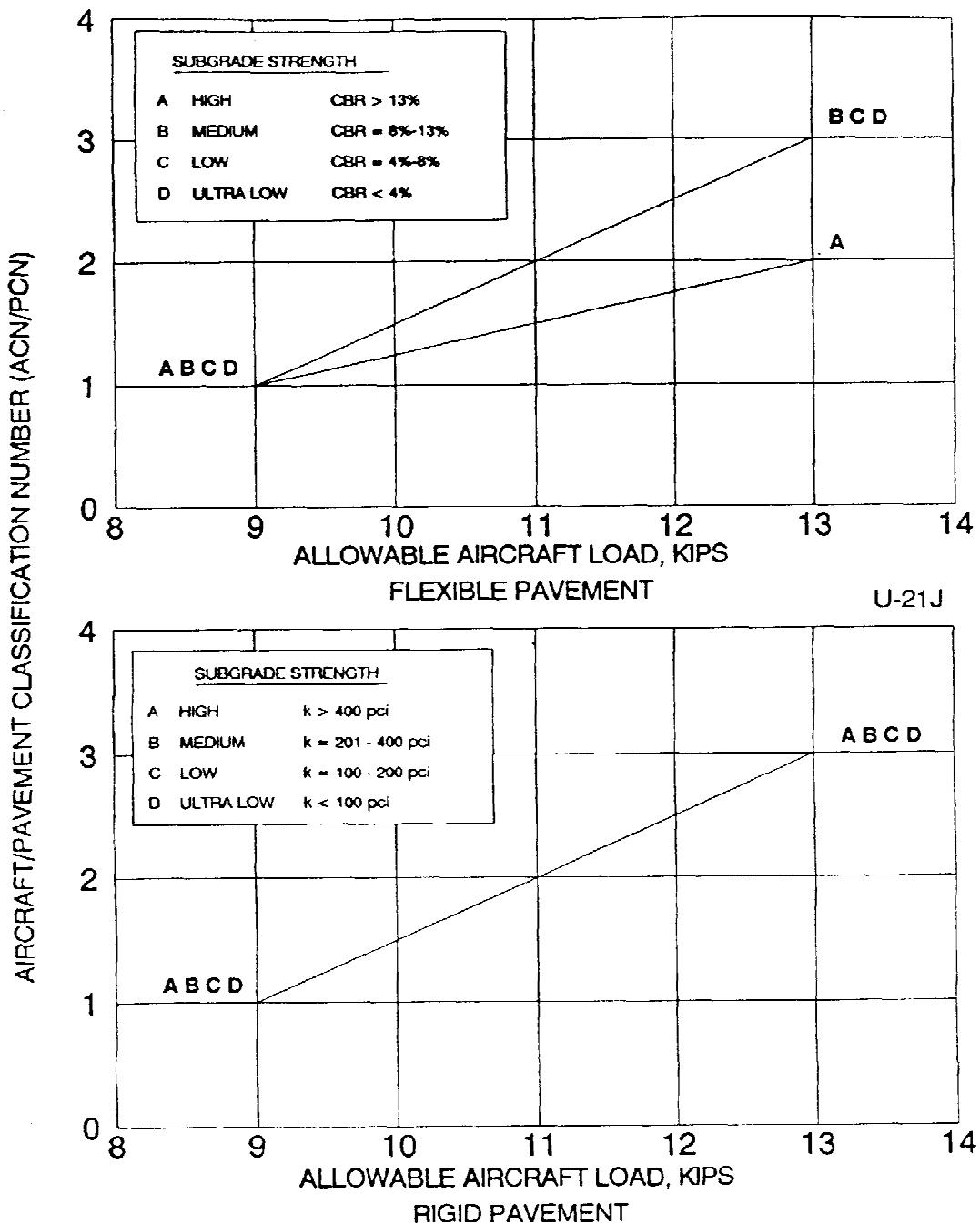


Figure A-98. U-21J, ACN/PCN Curves

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Aircraft Manufacturer McDonnell DouglasAircraft Engine Manufacturer General Electric (J79-GE-15)No. of Engines 2 Engine Rating 17,000 lbMin. T/O Wt. 35.9 k-lb * Min. T/O Dist. @ Min. T/O Wt. 1,400 ft* Min. T/O Dist. @ Min. T/O Wt. With Abort Dist. †Max. T/O Wt. Peace-Time 52.8 k-lb Max. T/O Wt. War-Time 58.0 k-lb* Min. T/O Dist. @ Max. T/O Wt. War-Time 4,000 ft* Min. T/O Dist. @ Max. T/O Wt. War-Time With Abort Dist. †Min. Ldg. Wt. 33.6 k-lb Max. Ldg. Wt. 46.0 k-lb* Min. Ldg. Dist. @ Min. Ldg. Wt. 2,430 ft* Min. Ldg. Dist. @ Max. Ldg. Wt. †

* These distances are at 59°F, at sea level, with zero runway gradient, and on a clean dry runway surface.

ACN

Weight	Rigid Pavement Subgrades				Flexible Pavement Subgrades			
	Ultra		Very		High A	Medium B	Low C	Low D
	High A	Medium B	Low C	Low D				
34	12	12	13	13	13	14	14	14
46	19	19	19	19	20	20	20	19
53	23	23	23	23	24	24	24	23
58	26	26	25	25	27	26	26	25

Figure A-99. RF-4C, Phantom II

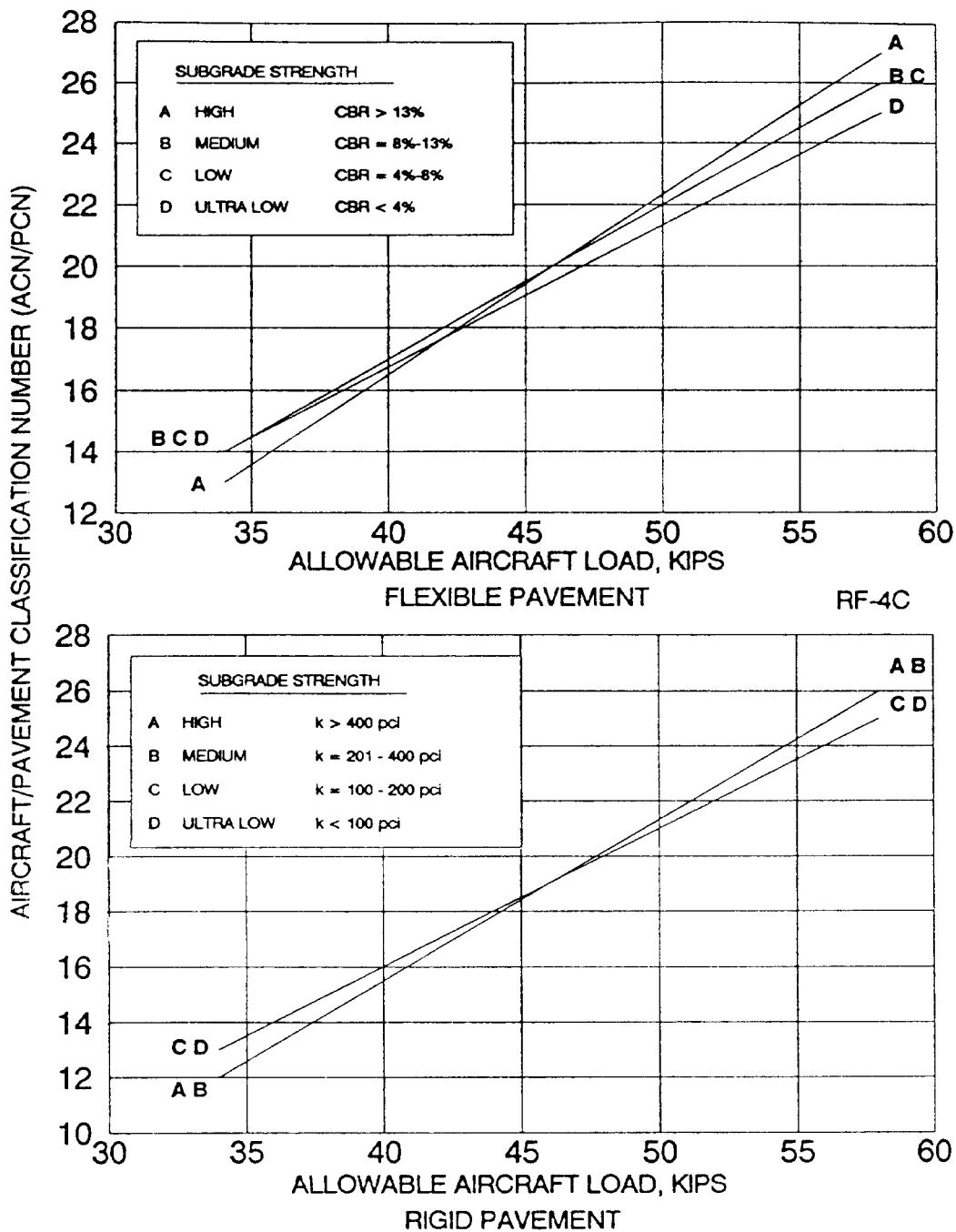


Figure A-100. RF-4C, ACN/PCN Curves

ETL 1110-3-394

27 Sep 91

Aircraft Manufacturer Beech

Aircraft Engine Manufacturer Pratt and Whitney of Canada (PT6A-20)

No. of Engines 2 Engine Rating 550 SHP

Min. T/O Wt. 6.8 k-lb * Min. T/O Dist. @ Min. T/O Wt. †

* Min. T/O Dist. @ Min. T/O Wt. With Abort Dist. †

Max. T/O Wt. Peace-Time 9.65 k-lb Max. T/O Wt. War-Time 9.65 k-lb

* Min. T/O Dist. @ Max. T/O Wt. War-Time 1,000 ft

* Min. T/O Dist. @ Max. T/O Wt. War-Time With Abort Dist. †

Min. Ldg. Wt. 6.8 k-lb Max. Ldg. Wt. 9.17 k-lb

* Min. Ldg. Dist. @ Min. Ldg. Wt. †

* Min. Ldg. Dist. @ Max. Ldg. Wt. 800 ft

* These distances are at 59°F, at sea level, with zero runway gradient, and on a clean dry runway surface.

ACN

Weight	Rigid Pavement Subgrades				Flexible Pavement Subgrades				Very Low D	
	High A		Medium B		Ultra Low C		Low D			
	High A	Medium B	Low C	Low D	High A	Medium B	Low C			
7	2	2	2	2	2	2	2	2	2	
9	3	3	3	3	3	3	3	3	3	
10	3	3	3	3	3	3	3	3	4	

Figure A-101. RU-21A and U-21A/D/G